NOV 2 0 2003 E

PTO/SB/DBA (10-01)
Approved for use through 10/31/2002/OMB 0851-0031
U. S. Petent and Trademark Officer U.S. DEPARTMENT OF COMMERCE
point to a cotection of infarmation unless 8 contains a valid CMB control number.

Substitute for form 1449APTO
Substitute for form 1449APTO
Substitute for form 1449APTO
STATEMENT BY APPLICANT

(use as many sheets as necessary)

Application Number 09/653,411

Filling Date August 31, 2000

First Number Whonchee Lee
An Unit 2815

Examinar Name Joseph H. Nguyen

Approved Cocket Number W4085.0381/P361

U.S. PATENT DOCUMENTS						
Document Number Public		Publication Date	Name of Patentee or Applicant	Where Relevant		
uaminer Mats*	Che No.	Number-10nd Code <sup>2</sup> (Fknown)	MW-00-WW	of Cited Document	Passages or Relevant Figures Appear	
-W	AA	2001/0036746	11-01-2001	Sato et al.		
<u> </u>	AB	2002/0025759	02-28-2002	Lee et al.		
+	AC	2002/0025760	02-28-2002	Lee et al.		
+	AD	2002/0025763 .	02-28-2002	Lee et al.		
+	AE	2002/0052126	05-02-2002	Lee et al		
+-	AF	2002/0070126	06-13-2002	Sato et al.		
+	ĀG	2003/0054729	02-20-2003	Lee et al.		
+-	AH	2003/0109198	06-12-2003	Lee et al.		
+-	AI	2003/0129927	07-10-2003	Lee et al.		
+-	A)	4,839,005	06-13-1989	Katsumoto et al.		
+-	AK	5.244.534	09-14-1993	Yu et al.		
+	AL	5,300,155	04-05-1994	Sandhu et al.		
+	AM	5,567,300	10-22-1996	Datta et al.	<del></del>	
+	AN	5,575,885	11-19-1998	Hirabayashi et al.		
+	ÃO	5,618,381		Doan et al.	_ <del></del>	
-+-	AP	5,676,587	10-14-1997	Landers et al.		
	ÃQ	5,681,423	10-28-1997	Sandhu et al.		
-+-	AR	5.780.358	07-14-1998	Zhou et al.		
	AS	5,807,165	09-15-1998	Uzoh et al.		
-+	AT	5.840,629	11-24-1998			
-+	AU	5.846,398	12-08-1998	Carplo		
+	- AV	5.883.307	01-26-1999			
	AW	5,897,375	04-27-1999	Watts et al.		
	AX	5,911,619	06-15-1999	Uzoh et al.		
-	AY	5,930,699	07-27-1996	Bhatla		
$\dashv$	AZ	5,934,980	08-10-1999	Koos et al.		
	TÃÃ.			Cadien et al.		
	AB		09-21-1999	Kaufman et al.	<del></del>	
┝╼┿	AC		10-26-199	Hudson		
┝╾┼	AD		12-14-199	Farkas et al.		
┝╼┼	AE		01-04-200	) Glass		
$\vdash$	AF		03-07-200	O Acki et al.		
┝╌╂	TAG		03-21-200		<del></del>	
┝╾┼		1 6,046,099	04-04-200	O Cadien et al.		
$\vdash$	A		04-18-200	0 Jang		
├─┤			05-09-200			
Н	AK		05-09-200			
┝╌┤	AL		05-16-200	O Kaufman et al.		
$\vdash$		1 6,066,030	05-23-200	0 Uzoh		
<b> </b>		1 8,066,559	05-23-200	O Gonzalez et al.		
-	HÃ		05-30-200	O Grumbine e t al.		
-		1 6,083,840	07-04-200			
-		01   6,100,197		O Hasegawa		
-		1 6,103,628	08-15-200	XX Talieh		
<b>—</b>		1 6.117,781	09-12-200	O Lukanc et al.		

1875113 vt ZW\$W01LDOC

PTO/SB/08A (10-01)
Approved for use through 10/31/2002.DMB 0851-0031
U. S. Patent and Trademark Office:: U.S. DEPARTMENT OF COMMERCE
IN Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a visid CMB control number.

	Substitute for form 1449A/PTO			Complete If Knewn			
Substitu	DE LOS HOLLS 144 RIV	PIO		Application Number	09/653,411		
INF	ORMATI	ON DISC	LOSURE	Filing Date	August 31, 2000		
	ATEMEN			First Named Inventor	Whonches Lee 2815 Joseph H. Nguyen		
51			2.07	Art Unit			
	(use as mar	ly sheets as nece	338IY)	Examiner Name .			
Sheet	2	ď	3 Attorney Docket Number M4065		M4065.0381/P381		
_			U.S. PATE	NT DOCUMENTS			

			TENT DOCUMENTS	
W	AT1 6,121,152	09-19-2000		
	AU1 6,143,155	11-07-2000		
	AV1 6,171,467	01-09-2001		
1	AW1 6,176,992	01-23-2001	Talieh	
	AX1 6,187,651	02-13-2001	Oh	
$\vdash$	AY1 6,198,899	03-08-2001	Chopra et al.	
$\vdash$	AZ1 6,208,756		Chopra et al.	
<u></u>	AA2 6,218,309	04-17-2001	Miller et al.	
$\vdash$	AB2 6,250,994		Chopra et al.	
	AC2 6,273,785	08-14-2001	Chopra et al.	
$\vdash$	AD2 6,276,996	08-21-2001	Chopra	
$\vdash$	AE2 6,287,974	09-11-2001	Miller	
$\vdash$	AF2 6,299,741	10-09-2001		
$\vdash$	AG2 6,313,038	11-08-2001	Chopra et al.	
1	AH2 8,328,632	12-11-2001		
-	AI2 6,368,190		Easter et al.	
-	AJ2 8,455,370	09-24-2002		
1	AK2 5,993,637	11-30-1999	Hisamatsu et al.	<del></del>

		FOREK	SNPATENT	DOCUMENTS	Pages, Columns, Lines,	Т
			Publication Date MW-DD-YYYY	Name of Patentee or	When Relevant Pessages or Relevant	
cominer nitials	Che No.	Country Code <sup>2</sup> - Number <sup>1</sup> Hand Code <sup>2</sup> (Filmown)		Applicant of Cited Document .	Rouges Appear	T
77/	BA	EP 0 459 397 A2	12-04-1991	Naoto Miyashita		+
_///		JP 2001-077117	03-23-2001	Nogami Takeshi, et al.		+-
		WO 00/28588		Dinash Chopra	<del></del>	┿
		WO 00/28443	05-11-2000	Homayoun Talleh	<del></del>	╁
+		WO 00/32358	06-08-2000	Homayoun Talieh		+-
		WO 00/59008		Homayoun Talieh	4	╁
	BG	WO 00/59682		Homayoun Talleh	<del></del>	┿
		WO 02/064314	08-22-2002	Ismail Emesh, et al.	<del> </del>	+

\*Applicants unique cliniton designation number (optional). \*See stacted finds Codes of USPTO Palent Cocuments at <u>monuntationers</u> of MPEP 901.04. \*
Exter Office that issued the document, by the two-latter code (NPPO Sandard 51.3). \*For Japanese patient documents, the indication of the year of the neight of the Emperor must precede the application number of the patient document. \*Nate of document by the appropriate as indicated on the document under the Lambert of the latter of the latter

		NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	is: City tion (took, megazine, journel, early, person, could be called (when appropriate), time of the tion (took, megazine, journel, early, symposium, catalog, etc.), date, paget(s), volume-issue number(s), tion (took, megazine, journel, early), symposium, catalog, etc.)					
W	CA	KONDO, S. et al., "Abrasive-Free Polishing for Copper Damascene Interconnection," Jour of the Electrochamical Society, Vol. 147, No. 10, pp. 3907-3913, (2000)				
	СВ	DHEURLE, F.M. and K.C. PARK, IBM Technical Disclosure Bulleun, Electropic Process for Metal Pattern Generation, Vol. 17, No. 1, pp. 271-272, June 1974, XP-002235691,	<u> </u>			
	CC	FRANKENTHAL, R.P. and EATON, D.H., "Electroetching of Platinum In the Titanium- Platinum-Gold Metallization on Silicon Integrated Circuits," Journal of The Electrochamical	L			

ISTATIZ VI; ZNEWOILDOC

MM 5 0 MM ES

Approved by use through 10/31/2002/DMS 0681-4631 U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Sur	halisata for form 1449B/PTC	`		Complete If Known			
•		•		Application Number 09/653.411			
11	NFORMATION	I DI	SCLOSURE	Filing Date	August 31, 2000		
	TATEMENT			First Named Inventor	Whonchee Lee		
_				Group Art Unit	2815		
(use as many sheets as necessary)				Examinar Name	Joseph H. Nguyen		
Sheet	3	œ	3	Attorney Docket Number	M4065.0361/P361		

	Society, Vol. 123, No. 5, pp. 703-706, May 1976, Pennington, New Jersey.
	NON PATENT LITERATURE DOCUMENTS
JN CD	ABOAF, J.A. and R.W. BROADIE, IBM Technical Disclosure Bulletin, Rounding of Square- Shape Holes in Silicon Wafers, Vol. 19, No. 8, p. 3042, January 1977, XP-002235690, NN 77013042.
CE	BASSOUS, E., IBM Technical Disclosure Bulletin, Low Temperature Methods for Rounding Silicon Nozzlas, Vol. 20, No. 2, July 1977, pp. 810-811, XP-002235692, NN 7707810.
CF	McGraw-Hill, "Chemical bonding," Concise Encyclopedia of Science & Technology, Fourth Edition, Sybil P. Perker, Editor in Chief, p. 357, McGraw-Hill, New York, New York, 1998.
CG	PhysicsWorld. Hard Meterials (excerpt of Superhard supertattices) [online]. S. Barnett and A. Madan, Physics World, January 1998, Institute of Physics Publishing Ltd., Bristol, United Kingdom. Retrieved from the Internet on July 29, 2002.  LURL: http://phys.icsweb.org/box/world/11/1/11/world-11-1-11-1>.
СН	HUANG, C.S. et al., "A Novel UV Baking Process to Improve DUV Photoresist Hardness," pp. 135-138, Proceedings of the 1999 International Symposium on VLSI Technology, Systems, and Applications: Proceedings of Technical Papers: June 8-10, 1999, Talpel, Talwan, Institute of Electrical and Electronics Engineers, Inc., September 1999.
CI	ATMI, Inc., adapted from a presentation at the Semicon West '99 Low Dielectric Materials Technology Conference, San Francisco, California, July 12, 1999, pp. 13-25.
CJ	Micro Photonics, Inc. CSM Application Bulletin, Low-load Micro Scretch Tester (MST) for characterisation of thin polymer films (online). 3 pages. Retrieved from the Internet on July 25, 2002. <url: http:="" mstabpoly.html="" www.microphotonics.com="">.</url:>
. CK	Micro Photonics, Inc. CSM Nano Hardness Tester [online]. 6 pages. Retrieved from the Internet on July 29, 2002. <url: http:="" nht.html="" www.microphotonics.com="">.</url:>

					· · · · · · · · · · · · · · · · · · ·
1	Examiner	The Coll of the	•	Data	Una la a
	Clongham	10311/KH N/G/11/11/11		Considered	1/10/04

\*EXAM PLER: Initial If reference considered, whether or not display is in conformance with MFEP 809. Draw line through cliebon if not in conformance and man

'Appelerant's units in charles designation dumber (contents). 'Appelerant is to chara 8 check coast here if Earlish tanguage Translation is exacted

1675112 VI; EMENOTLEOC